Claim Amendments

1. (Currently Amended) A dual mode RFID reader, comprising:

an antenna for receiving and transmitting RF signals,

a RF source and Preamplifier module having a RF source section comprising at least two RF mixers in series and a preamplifier section,

a power supply,

an input/output connection, and

a digital signal processor module;

said antenna connected to said RF source and preamplifier module for receiving and transmitting RF signals:

said digital signal processor module controlling said RF source and preamplifier module, and decoding said RF signals received by the antenna[.];

said digital signal processor operable with more than one of a RFID protocol by changing an operational characteristic of said RF source and preamplifier module, wherein the gain of the preamplifier is adjusted in response to the amplitude of the incoming data.

2. (Original) The device of Claim 1, wherein:

said Digital signal processor includes a flash memory,

said flash memory loadable with operational data, allowing the device to be reconfigured by a host computer.

3. (Original) The device of Claim 1, wherein:

said more than one RFID protocols include Intellitag 500 and ISO/AAR protocol.

4. (Original) The device of Claim 1 wherein:

An operating range of the device is adjustable by varying a RF signal power output level.

5. (Original) The device of Claim 1 wherein:

An operating range of the device is adjustable by varying a data threshold level.

6. (Original) The device of Claim 1 wherein:

the device is enclosed in a housing formed from two identical, matching halves.

7. (Original) The device of Claim 1 wherein:

the RF source and preamplifier module filter and amplify received RF signals at a filtering and amplification level controlled by the digital signal processor.

8. (New) The device of Claim 1 wherein a modulation data string is controlled by logic signals from the data signal processor.

9. (New) The device of Claim 1 wherein said more than one RFID protocol is at least a first RFID protocol and a second RFID protocol and said first RFID protocol utilizes gamma technology.

10. (New) The device of Claim 1 wherein said more than one RFID protocol is at least a first RFID protocol and a second RFID protocol and said first RFID protocol utilizes a differently modulated RF signal than said second RFID protocol.

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11. (New) A method of reading more than one RFID protocol comprising the steps of:

driving RF mixers in series to create a modulated signal for use with more than one RFID protocol;

controlling the modulation data string;

adjusting the gain of a preamplifier in response to the amplitude of incoming data; and

monitoring for error conditions.

12. (New) The method of Claim11 wherein said more than one RFID protocol is at least a first RFID protocol and a second RFID protocol and said first and second RFID protocols are Intellitag 500 and ISO/AAR protocol.

13. (New) The method of claim 11 wherein said more than one RFID protocol is at least a first RFID protocol and a second RFID protocol and said first RFID protocol utilizes gamma technology.

14. (New) The method of claim 11 wherein said more than one RFID protocol is at least a first RFID protocol and a second RFID protocol and said first RFID protocol utilizes a differently modulated RF signal than said second RFID protocol.